B. 515501



NOV 28 2000

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TECH CENTER 1600/2900

DATE: 11/16/2000

TIME: 12:14:43

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/214,645

Input Set : A:\DIVER1220-2.TXT

Output Set: N:\CRF3\11162000\I214645.raw

```
4 <110> APPLICANT: Short, Jay M.
     6 <120> TITLE OF INVENTION: METHOD OF DNA SHUFFTING WITH
             POLYNUCLEOTIDES PRODUCED BY BLOCKING OR INTERRUPTING A
             SYNTHESIS OR AMPLIFICATION PROCESS
    11 <130> FILE REFERENCE: DIVER1220-2
    13 <140> CURRENT APPLICATION NUMBER: 09/214,645
    14 <141> CURRENT FILING DATE: 1999-09-27
    16 <150> PRIOR APPLICATION NUMBER: PCT/US97/12239
    17 <151> PRIOR FILTING DATE: 1997-07-09
    19 <160> NUMBER OF SEQ ID NOS: 13
    21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
    23 <210> SEO ID NO: 1
    24 <211> LENGTH: 5
    25 <212> TYPE: PRT
     26 <213> ORGANISM: Artificial Sequence
    28 <220> FEATURE:
    29 <223> OTHER INFORMATION: linker peptide
     31 <400> SEQUENCE: 1
     32 Gly Gly Gly Gly Ser
     33 1
     35 <210> SEQ ID NO: 2
     36 <211> LENGTH: 30
     37 <212> TYPE: DNA
     38 <213> ORGANISM: Artificial Sequence
     40 <220> FEATURE:
     41 <223> OTHER INFORMATION: defined sequence kernel; n = A, T, G, or C; k = G
             or T
     42
    44 <400> SEQUENCE: 2
W--> 45 nnknnknnkn nknnknnknn knnknnknnk
     47 <210> SEQ ID NO: 3
     48 <211> LENGTH: 30
     49 <212> TYPE: DNA
     50 <213> ORGANISM: Artificial Sequence
     52 <220> FEATURE:
     53 <223> OTHER INFORMATION: defined sequence kernel; n = A, T, G, or C; m = A
     54
              or C
     56 <400> SEQUENCE: 3
                                                                                30
W--> 57 nnmnnmnmn nmnnmnmnn mnnmnmnm
     59 <210> SEQ ID NO: 4
     60 <211> LENGTH: 11
     61 <212> TYPE: DNA
     62 <213> ORGANISM: Artificial Sequence
     64 <220> FEATURE:
     65 <223> OTHER INFORMATION: oligonucleotide
     67 <400> SEQUENCE: 4
                                                                                11.
     68 tecaaaegta a
     70 <21.0> SEQ ID NO: 5
```





DATE: 11/16/2000 TIME: 12:14:43

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/214,645

Input Set : A:\DIVER1220-2.TXT
Output Set: N:\CRF3\11162000\1214645.raw

	71 <211	> LENGTH: 58	
		> TYPE: DNA	
		> ORGANISM: Artificial Sequence	
		> FEATURE:	
		> OTHER INFORMATION: oligonucleotide; n = A, T, G, or C	
		> SEQUENCE: 5	
W>	79 nnnc	tannng ccatacgtcc aggitacgit tqqannngat cattaatcga accittaa	58
	81 <210	> SEQ ID NO: 6	
		> LENGTH: 31	
	83 <212	> TYPE: DNA	
	84 <213	> ORGANISM: Artificial Sequence	
	86 <220	> FEATURE:	
	87 < 223	> OTHER INFORMATION: oligonucleotide; n = A, T, G, or C	
	89 < 400	> SEQUENCE: 6	
W>	90 teca	aacgta acctggacgt atggennnta g	31
	92 <210	> SEQ ID NO: 7	
	93 <211	> LENGTH: 10	
	94 <212	> TYPE: DNA	
	95 <213	> ORGANISM: Artificial Sequence	
	97 <220	> FEATURE:	
	98 < 223	> OTHER INFORMATION: oligonucleotide	
	100 < 40	0> SEQUENCE: 7	
		ttogatt	1.0
	103 <21	0> SEQ ID NO: 8	
		1> LENGTH: 29	
		2> TYPE: DNA	
		3> ORGANISM: Artificial Sequence	
		0> FEATORE:	
		3> OTHER INFORMATION: oligonucleotide; n = A, T, G, or C	
		0> SEQUENCE: 8	
W>		gannnga tcattaatcg aacctttaa	29
		0> SEQ ID NO: 9	
		1> LENGTH: 25	
		2> TYPE: DNA	
		3> ORGANISM: Artificial Sequence	
		0> FEATURE:	
		3> OTHER INFORMATION: oligonucleotide; n = A, T, G, or C	
		0> SEQUENCE: 9	25
W>		ttcgatt aatgatcnnn tccaa 0> SEQ ID NO: 10	23
		1> LENGTH: 23	
		2> TYPE: DNA	
		3> ORGANISM: Artificial Sequence	
		0> FEATURE:	
		3> OTHER INFORMATION: oligonucleotide	
		0> SEQUENCE: 10	
		ttaagga gtccgtaagg att	23
		0> SEQ ID NO: 11	
		1> LENGTH: 17	
	201 462	are appropriately and the second	





DATE: 11/16/2000 TIME: 12:14:43

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/214,645

Input Set : A:\DIVER1220-2.TXT
Output Set: N:\CRF3\11162000\1214645.raw

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/214,645

DATE: 11/16/2000 TIME: 12:14:44

Input Set : A:\DIVER1220-2.TXT
Output Set: N:\CRF3\11162000\1214645.raw

 $\text{L}\!:\!45~\text{M}\!:\!258~\text{W}\!:\!$ Mandatory Feature missing, <221> not found for SEQ 1D#:2 $\rm L\!:\!45~M\!:\!258~W\!:$ Mandatory Feature missing, <222> not found for SEQ ID#:2 L:45 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2 L:57 M:258 W: Mandatory Feature missing, <221> not found for SEQ LD#:3 L:57 M:258 W: Mandatory Feature missing, <222> not found for SEQ LD#:3 $\rm L:57~M:340~W:$ (46) "n" or "Xaa" used: Feature required, for SEO IDa:3 L:79 M:258 W: Mandatory Feature missing, <221> not found for SEQ $\hat{\text{LD}\#}:5$ L:79 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:79 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5 L:90 M:258 W: Mandatory Feature missing, <221> not found for SEQ 1D#:6 L:90 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6 L:90 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:6 L:112 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID4:8 T::112 M:258 W: Mandatory Feature missing, <222> not found for SEQ TD#:8 L:112 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9 L:123 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9 L:123 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9 L:123 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9

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